ELECTRONIC NIMO

# MAN 2002

## MANDO A DISTANCIA UNIVERSAL

# 2 en 1

Teletexto

Memoria Permanente

Regulación de tonos/graves y agudos

Fácil instalación

Brillo y contraste

TV

DVD

# Users manual for TMURC012

## *General Description:*

The 2 in 1 universal remote control is a new model of preprogrammed universal remote control for European market which has an extensive code library, powerful function and stable quality .It features as:

a. Totally 2 device keys: TV, DVD
b. 4 Operation Modes: Set-up Mode, Manual Search Mode, Auto Search and Display Mode.
c. Back-up memory to keep the set up data no- volatilization.
d. LED flash to indicate when transmission.
e. Set-up indicating LED
f. Device Lock Function
g. Menu Function

## *Code Set Up:*

**A. Set Up by brand code:**

According to the attached **Device Brand Code List**, find out the code of the device brand and device code that you want to control. For example, you can find codes for SONY TV: 010, 011, 028, and 030… Then follow the steps as below:

1. Press and hold the **[SET]** key. Then press the device key that you want to control, such as **[TV]**, [DVD].
2. The LED will be on at moment. Then **release** the pressed both keys.
3. Enter in the **3-digit Device Code** (for example: code 010 under SONY TV).
4. If the entered Device Code is correct, the LED will be off automatically, then gone to step e. If it is incorrect, the LED will blink twice and keep being at set up mode, then return to step c.
5. **Try** if keys on remote control work or not.
   If none key works or some key work but most keys work improperly, please **try other codes** in the same brand (for example: code 028,030 ...under SONY TV), repeat step a-e till you find one code which work good enough.

**Remark**: In the process of setup, if you want to quit from setup mode, please press device key. (If no key pressed in 10 seconds, the remote control will leave the set up mode automatically.)

**B. Set Up by Manual Search:**

After you have set up by device brand code several times, the remote control still doesn't work (i.e. The device still cannot be controlled by this remote control), or you cannot find the correct code in the Device Brand Code List, you can use "**Manual Search**" to find out the reactive Code:

1. Power on the device that you want to control.
2. Press and hold the **[SET]** keys. Then press the device key in remote control, such as **[TV]**, etc
3. The LED will be on at moment. Then **release** the pressed keys.
4. Point the remote control to the device, strike the **[POWER]** key. If it's DVD, you can press either [POWER] key or [PLAY] key, the remote control enters into" Manual Search" mode and the LED keeps flashing.
5. See if device reacts or not. If it works, turn to step f; if not, repeat step d every 1 second.
6. **Test** other keys. If keys work well enough, press the **device** key to quit from the search mode. If most keys don't work well enough, repeat step d-f to find the best code.

**Remarks**:

a. Whenever you want to leave or change search mode, press the device key to quit, and the LED will turn off.
b. In the Manual Search Mode, besides the [POWER] key ([POWER] key and [PLAY] key in case of DVD), all other keys' function can be checked normally. That is to say you can test other keys without leaving Manual Search mode. It will leave Manual Search mode automatically if no key pressed in 30 seconds.
c. You may use the SET key to change the search direction from forward to backward or from backward to forward.
d. After you press [POWER] 154 times in TV (or 59 times in DVD). If device still does not react from remote control that means this remote control may not work for your device.

**C. Set up by Auto Search**

This search is similar to Manuel Search except it transmits power signal automatically instead of manually pressing the power key during the search:

1. Power on the device you want to control.
2. Press and hold **[SET]** key, in the meantime, press and hold the Device key that you want to control (for example: **TV**) for more than **3 seconds** and then **release** them, the auto search begins. The remote control enters into Auto Search, LED flash, and remote control transmit power signal every 2.0 second automatically.
3. See if device react or not, once the device reacts, press any key (except SET key) to **stop** the search.
4. **Test** if other keys work well enough. If most keys don't work well enough, Auto Search again to find next reactive code and try until you find the best code.

Remark:

a. You must point your remote control to the device that you want to control during Auto Search.
b. Whenever you want to leave Auto Search mode, press any key (except SET key) to quit, and the LED will be Off. The search is over.
c. When remote control search through all codes (about 10 minutes), then the remote control will quit from Auto Search process automatically.
d. In case of you did not stop the search on time when device reacted, you may use the Manual Search to search back to find the overlooked code.

## *Device Lock/Unlock*

You can use "Device Lock" function to fix current device code and this device code cannot be changed by code set up or code search. You can use the "Unlock" to quit from this function.

a. Strike the device key that you want to fix such as **[TV]**, [DVD]
b. Press and hold the **[SET]** key, then press the **[7]** key, then release the both pressed keys, the LED will blink twice then off, the code of the current device are locked.

c. If you want unlock the current code, press and hold the [SET] key, then press the **[8]** key, then release the pressed keys, the LED will blink twice and then off, the current code unlocked.

**Remark**: Only one device can be fixed.

## *Device Code Display*

The device code is a 3-digit number and any one of the 3 digits can be indicated:

1. Strike the device key which code no. You want to display.
2. Press and hold the [SET] key, in the mean time press the digit that you want to display, such as 1, 2, or3.
3. Release the both pressed keys
4. Count the times the LED blinks, and the blinking time is the digit. If there is no blink, the digit is zero.
   For example: for code 138
   SET+1 (first digit): LED blinks 1 time
   SET+2 (second digit): LED blinks 3 times
   SET+3 (third digit): LED blinks 8 times

## *Reset*

Use the Reset function to erase all the set up data.

1. Press and hold the [SET] key.
2. Then press and hold the [0] key for more than **3 seconds**.
3. Then release the both pressed keys, the LED will blink twice then off, your remote control got reset.

## *Others*

a. After you have finished set-up, **first** please press the device key (TV or…) on remote control that you want to use, and then operate your remote control normally.

# Manual del Usuario para el TMURC012

## *Descripción General:*

Gracias por la compra de este mando a distancia universal 2 en 1. Su nuevo mando a distancia contiene una de las mayores bibliotecas de códigos infrarrojos para 2 aparatos diferentes que puedan obtenerse en Europa.

Este mando a distancia está programado, todo lo que tiene que hacer es seleccionar el aparato que desea controlar (por ejemplo TV) y su número de código de 4 dígitos de la lista de códigos de la marca (por ejemplo, 001 en el televisor PHILIPS). Después de configurarlo recordará todos sus datos de configuración permanentemente, incluso si extrae las pilas más adelante.

El mando a distancia universal 2 en 1 es apropiado prácticamente para todas las maracas más conocidas de televisores (TV) y DVD.

Este mando a distancia 2 en 1 controla casi todas las funciones básicas de sus aparatos. Le rogamos lea estas instrucciones de funcionamiento antes de usar su nuevo mando a distancia 2 en 1.

## *Configuración:*

Compruebe que se han colocado dos pilas alcalinas nuevas 1.5V (tipo “AAA”) correctamente en su mando a distancia.

**A. Configuración por medio del código de marca.**

1. Encienda el aparato que desea controlar (p. ej. Televisor)
2. En la última sección de este manual podrá localizar el nombre y número de código de la marca de su aparato (p. ej. PHILIPS 001, 004, 016, etc.). Tenga en cuenta que los códigos deben de estar en la columna para el grupo de aparatos correspondiente (TV).
3. Mantenga pulsada la tecla SET y pulse simultáneamente la tecla del aparato

(p.ej. TV). Se iluminará la tecla TV de su mando a distancia, lo que significa que se encuentra en la modalidad de configuración.

4. Seguidamente debe introducir el código del aparato de 3 dígitos (p.ej. 001 para un televisor PHILIPS) en un plazo de 10 segundos. Si no se realiza ninguna entrada en un plazo de 10 segundos, saldrá automáticamente de la modalidad de configuración.
5. El LED se apagará si el código ha sido aceptado por el mando a distancia. Si el LED destella dos veces, significa que el código puede estar incorrecto y el mando a distancia permanecerá en el modo de configuración, introduzca el código correcto de la lista.
6. Compruebe el funcionamiento de las teclas del mando a distancia. Si la mayoría de las teclas de su nuevo mando a distancia no funcionan correctamente, intente con el código de otro aparato de 3 dígitos (p. ej. 004…) de la lista, dentro de la misma marca. Repita los pasos 3 a 6 hasta que funcionen correctamente todas las funciones básicas. Una vez aceptado el código correcto, el aparato se habrá configurado correctamente.

**Nota**. Para salir del modo de configuración, pulse la tecla del aparato (p.ej. TV). Si no pulsa ninguna tecla en un periodo de 10 segundos, lo abandonará automáticamente.

**B. Configuración mediante búsqueda automática (Auto Search):**

Si la configuración con el nombre y los códigos de la marca no dan resultado o no puede encontrar el nombre de su marca en la lista, puede usar la Búsqueda Automática (“Auto Search”) para establecer el código correcto para su mando a distancia.

1. Encienda el aparato que desea controlar (p. ej. Televisor)
2. Señale el aparato con el mando a distancia. Pulse la tecla SET y la tecla del aparato (p.ej. TV) simultáneamente y manténgalas presionadas por 3 segundos. Después, la tecla del aparato destellará, lo que significa que se encuentra en la modalidad de búsqueda.
3. La señal OFF se transmite automáticamente al aparato desde el mando a distancia (exploración del código). Después de apagarse el aparato (p. ej.

TV), pulse inmediatamente cualquier tecla (excepto la tecla SET) para detener la Búsqueda Automática.

4. Encienda nuevamente el aparato pulsando la tecla “POWER”. Verifique el funcionamiento de las otras teclas del mando a distancia. Si no funciona ninguna (lo que significa que no puede detener la búsqueda dentro del tiempo fijado), o la mayoría del funcionamiento de las teclas no es lo suficientemente eficiente, puede iniciar la búsqueda nuevamente (ver los pasos 2-4) para encontrar el código apropiado.

   Si la mayoría de las teclas funcionan correctamente, significa que su configuración es la correcta, pulse la tecla del aparato nuevamente (p. ej. TV) para memorizar el código y salir de la configuración.

**Nota**. Para cancelar la Búsqueda Automática, pulse cualquier tecla (excepto la tecla SET). El LED se apagará y finalizará la búsqueda. Si no pulsa ninguna tecla en un plazo de 30 segundos, la búsqueda también finalizará automáticamente.

**C. Configuración mediante Búsqueda Manual (Manual Search)**

Si la configuración con el nombre y los códigos de la marca no dan resultado, puede usar también la Búsqueda Manual (“Manual Search”) para encontrar el código correcto para controlar el aparato.

1. Encienda el aparato que desea controlar. Si se trata de un grabador de video, introduzca una cinta de video.
2. Señale con el mando a distancia hacia su aparato. Mantenga pulsada la tecla SET y pulse la tecla del aparato (p. ej. TV) momentáneamente (menos de tres segundos, de lo contrario entrará en Búsqueda Automática), después suelte las dos teclas pulsadas.
3. La tecla del aparato se iluminará cuando el mando a distancia se encuentre en la modalidad de configuración.
4. Pulse la tecla POWER (tecla ON/OFF) cada 1.5 segundos aproximadamente (si el aparato buscado es un reproductor DVD puede pulsar también la tecla PLAY) seguidamente la tecla del aparato destella, lo que significa que se encuentra en el modo de Búsqueda Manual.
5. Una vez que se apague (o reaccione) el aparato buscado, compruebe el funcionamiento de las otras teclas (no pulse la tecla POWER en caso de que

pase al código siguiente) en el mando a distancia. Si la mayoría de las teclas no funcionan correctamente, pulse la tecla POWER cada 1.5 segundos aprox. para obtener el código siguiente (continúe la Búsqueda Manual, vea los pasos 4-5).

Si comprueba que la mayoría de las teclas del mando a distancia funcionan lo suficientemente bien, puede memorizara el código pulsando la tecla del aparato (p.ej. TV) para finalizar la Búsqueda Manual.

**Nota**. La Búsqueda Manual se finalizará automáticamente si no se realiza ninguna entrada en un plazo de 30 segundos.

## *OTRAS FUNCIONES:*

**A. Visualización del código del aparato:**

El código del aparato, que se ha configurado en su nuevo mando a distancia puede hacerse de la siguiente manera:

1. Mantenga pulsada la tecla SET, después pulse "1" para visualizar la 100ª posición del código de tres dígitos. Cuente los números en los que el LED destella. Si el LED no destella significa que el código es cero.
2. De la misma manera, mantenga pulsada la tecla SET y simultáneamente pulse la tecla "2" para visualizar la 10ª posición del código de tres dígitos.
3. Mantenga presionada la tecla SET y al mismo tiempo pulse la tecla "3" para visualizar la 1ª posición del código de tres dígitos.

Ejemplo para el código 028:

a. Pulse SET y "1", el LED destellará 0 veces, no destella.
b. Pulse SET y "2", el LED destellará 2 veces.
c. Pulse SET y "3", el LED destellará 8 veces.

**B. Función reset / borrar:**

Para borrar los códigos que se han configurado en el mando a distancia, mantenga presionada la tecla SET, al mismo tiempo pulse la tecla “0” durante más de 3 segundos y después deje de presionar ambas teclas. El LED destellará dos veces y se borrarán todos los datos de configuración en el mando a distancia.

**Nota**. Por favor, no utilice esta función si no desea borrar todos los ajustes.

**C. Protección contra escritura de los códigos de los aparatos:**

Para proteger los códigos de los aparatos contra sobre escritura / borrado involuntario, puede hacer lo siguiente.

1. Pulse la tecla del aparato (p. ej. TV) que desee proteger en su mando a distancia.
2. Mantenga pulsada la tecla SET y pulse simultáneamente la tecla “7”. Después deje de presionar ambas teclas, el LED destellará dos veces y el código quedará protegido contra sobre escritura/ borrado.

*Device Brand Code List*

# TV

| Brand | TV |
|---|---|
| Acme | 004,010 |
| Acura | 010 |
| ADA | 015 |
| ADC | 002,006 |
| Admiral | 001,002,003,020,050,054,109,187,196,197 |
| Adyson | 004,186,210,213 |
| Agashi | 187,206,212,214 |
| Agazi | 003 |
| Agb | 124 |
| Aiko | 004,005,010 |
| Aiwa | 088,213 |
| Akai | 007,009,010,011,012,052,062,069,070,071,134,142,170,206,221 |
| AKI | 206 |
| Akiba | 012,212 |
| Akito | 026 |
| Akura | 003,012,016,072,191,206,212 |
| Alba | 004,010,012,028,029,054,063,069,087,163,170,184,187,195,206,215,217 |
| Albiral | 038,206,207 |
| Alkos | 165 |
| Allorgan | 021,027,195,212,219 |
| Allstar | 052 |
| Amplivision | 004,209,214,228 |
| Amstrad | 003,010,012,014,031,069,070,072,075,109,124,226 |
| Anam | 010,066,110 |
| Anglo | 010 |
| Anitech | 003,010,016,044,110,183,184,224,231 |

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|---|---|
| **Ansonic** | **010,015** |
| **Arc En Ciel** | **046,127,140,204,207** |
| **Arcam Delta** | **004** |
| **Aristona** | **016,052,170,195** |
| **Arthur Martin** | **159** |
| **Art-Tech** | **212** |
| **ASA** | **001,017,018,019,050,111** |
| **Asberg** | **044,052,182,187,195** |
| **Astra** | **010** |
| **Astro Sound** | **207,212** |
| **Asuka** | **003,004,012,212,214,218** |
| **Atlantic** | **004,021,022,052,170,182,197** |
| **Atori** | **010** |
| **Audiosonic** | **004,010,012,021,052,140,170** |
| **Audioton** | **004,182,231,233** |
| **Ausind** | **044,212** |
| **Autovox** | **001,003,004,021,044,058,102,126** |
| **Baird** | **140,198,200,206,232** |
| **Bang&Olufson** | **001** |
| **Barcom** | **210** |
| **Basic line** | **010,012,052,184,198,212** |
| **Bastide** | **004** |
| **Baur** | **077,119,133,142,170** |
| **Bazin** | **183,201,206,217** |
| **Beknteknik** | **228** |
| **Beko** | **008,035,084,214,228** |
| **Beon** | **052,170** |
| **Best** | **114,115** |
| **Bestar** | **052,116,228** |
| **Binatone** | **004** |
| **Black Star** | **130** |
| **Blacktron** | **212** |
| **Blackway** | **212** |
| **Blaupunkt** | **009,023,101,113,120,136,179** |
| **Blausonic** | **209** |

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| **Blue sky** | **012,212,228** |
| **Blue star** | **121** |
| **Bondstec** | **130** |
| **Boots** | **004,026** |
| **Boston** | **208,218** |
| **BPL** | **121** |
| **Brandt** | **023,037,046,047,127,128,140,204** |
| **Brion vega** | **001,052,058,170,208** |
| **Bristol** | **208** |
| **Britannia** | **004** |
| **Bruns** | **001,008,040,227** |
| **BSR** | **027,132,197,210,212,215** |
| **BTC** | **012** |
| **Bush** | **010,012,020,025,026,028,029,033,052,063,069,116,121,132, 133,140,168,170,172** |
| **California** | **195** |
| **Capsonic** | **003,214** |
| **Carena** | **212,214** |
| **Carrefour** | **028** |
| **Cascade** | **010** |
| **Casio** | **201** |
| **Cathay** | **052,170** |
| **Centurion** | **052,170** |
| **Century** | **001,191** |
| **CGE** | **044,054,130,132,187,204** |
| **CGM** | **233,234** |
| **CIE** | **196,212,226** |
| **Cihan** | **214** |
| **Cimline** | **010,029,212,213** |
| **City** | **010** |
| **Clarivox** | **038,040,170** |
| **Clatronic** | **003,004,010,012,031,044,052,084,130,206,212,214** |
| **Cofadel** | **204** |
| **Colombia** | **228** |
| **Colombus** | **182** |

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| **Concorde** | **010** |
| **Condor** | **004,022,052,084,182,184,187,211** |
| **Cont. Edison** | **204** |
| **Contec** | **004,010,028,030,031,211,212,217** |
| **Continental Edison** | **023,037,046,047,112,127,140** |
| **Cosmel** | **010** |
| **Crezar** | **182,234** |
| **Crosley** | **001,044,130,132** |
| **Crown** | **010,044,052,054,084,115,122,170,228** |
| **Cs Electronics** | **004,012,130** |
| **CTC** | **130** |
| **CTC Clatronic** | **015,187,207,210,212,226** |
| **Cybertron** | **012** |
| **Daewoo** | **004,010,052,059,095,116,196** |
| **Dainichi** | **012,212** |
| **Dansai** | **003,052,170,212** |
| **Dantax** | **035,149,162,213** |
| **Datronic** | **196,211** |
| **Datsura** | **122** |
| **Dawa** | **195** |
| **Dayton** | **010** |
| **Daytron** | **196** |
| **De Graaf** | **007,020,034** |
| **Decca** | **004,011,026,031,052,124,170,229** |
| **Denko** | **206,214** |
| **Denver** | **211,212** |
| **Desmet** | **052,170,182** |
| **Digiline** | **213** |
| **Digital** | **212** |
| **Dixi** | **010,040,052,170** |
| **Domland** | **219** |
| **Domoh** | **182** |
| **DTS** | **010** |
| **Dual** | **004,090,126,127,132,140,161,195,197,206,207,211,219** |

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| **Dual-Tec** | **004,010,132,197** |
| **Dumont** | **001,004,015,018,019** |
| **Dux** | **170,195** |
| **Dynatron** | **052,170** |
| **Elbe** | **038,109,158,180** |
| **Elcit** | **001** |
| **Electa** | **121** |
| **Electro Tech** | **010** |
| **Elektronska** | **209** |
| **Elin** | **004,017,019,052,170,181,197,198,233** |
| **Elite** | **012,022,052,179,184,197** |
| **Elman** | **015,132,207,209,213** |
| **Elsay** | **184,229** |
| **Elta** | **010** |
| **Emerson** | **001,128,142** |
| **Engel** | **207,227** |
| **Erres** | **016,052,170** |
| **Estel** | **207** |
| **Etron** | **010** |
| **Eurocom** | **209,212** |
| **Euro-Feel** | **003** |
| **Euroline** | **089,170** |
| **Euroman** | **196,206,212,214** |
| **Euromann** | **003,004,052,115** |
| **Europa** | **228** |
| **Europhon** | **004,015,026,052,073,124,132,209,234** |
| **Eurotronic** | **228** |
| **Expert** | **021,188,197,198** |
| **Fenner** | **010,116,184,191,195,212** |
| **Ferguson** | **036,037,038,051,053,082,096,112,128,164,170,232** |
| **Fidelis** | **182,211** |
| **Fidelity** | **004,020,069,096,097** |
| **Filsai** | **217** |
| **Finlandia** | **007,020,111,129,181,198,200** |

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| **Finlux** | **001,004,011,015,017,018,019,044,052,064,111,124,132,158, 168,170,181,225** |
| **First Line** | **004,010,027,052,063,130,183** |
| **Fisher** | **001,004,007,019,028,030,040,041,084,132,195,200,211,227** |
| **Flint** | **052,149,183,184,187,196,214** |
| **Forgestone** | **096** |
| **Formenti** | **001,002,004,022,044,126,132,134,170,182** |
| **Fortress** | **001,002** |
| **France Concept** | **184** |
| **Frontech** | **003,010,020,050,069,119,130,183,184,191,213** |
| **Fujitsu** | **011,021,197,209,212** |
| **Funai** | **003,027,211,212** |
| **Galaxi** | **054,084** |
| **Galeria** | **196** |
| **Galway** | **184** |
| **GBC** | **010,028,132,233,234** |
| **GCM** | **195,212** |
| **GEC** | **004,011,042,050,052,124,133,142,170,186,198,224,229,231** |
| **Geloso** | **010,020,132,231** |
| **General Technic** | **010** |
| **Genexxa** | **012,050,052,212** |
| **Germanvox** | **234** |
| **Goldhand** | **231** |
| **Goldstar** | **004,010,013,020,052,085,094,130,132,170,172,210,223** |
| **Goodmans** | **003,010,011,028,029,052,069,094,112,116,128,154,170,230** |
| **Gorenje** | **084,115** |
| **GPM** | **012,210,212** |
| **Graetz** | **050,142,143,188** |
| **Granada** | **004,007,011,020,028,032,041,044,052,055,065,124,128,129, 134,135,139,170** |
| **Grandin** | **010,012,121,170,184** |
| **Gronic** | **180,191,212** |
| **Grundig** | **009,018,044,092,102,117,118,136,137,185** |
| **GTT** | **187,211** |

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| **Halifax** | **003,004** |
| **Hampton** | **004,183,234** |
| **Hanseatic** | **004,008,010,022,027,028,052,074,119,132,142,170** |
| **Hantarex** | **010,124** |
| **Harwood** | **186** |
| **HCM** | **003,004,010,075,121,200,211,234** |
| **Hemmerman** | **183,201** |
| **Hifivox** | **140,204** |
| **Higashi** | **206** |
| **Hinari** | **007,010,012,028,044,052,138,170,200,212,213,227,230** |
| **Hisawa** | **012,121,149,212** |
| **Hitachi** | **004,011,017,020,024,028,034,042,045,046,047,048,049,050, 086,119,124,132,133,139,140,141,142,143,145,186,224** |
| **Hitsu** | **206,212** |
| **Hornyphon** | **052** |
| **Hoshai** | **012,212,233** |
| **Huanyu** | **004,116** |
| **Hygashi** | **004** |
| **Hyper** | **004,010,130,132,233,234** |
| **Hypson** | **003,004,052,121,170,212,214** |
| **Ibervisao** | **188,207** |
| **Ibico** | **196** |
| **ICE** | **003,004,010,012,052,069,187,210,212** |
| **Imperial** | **044,050,052,054,084,130,132,187** |
| **Indesit** | **025,102** |
| **Indiana** | **052,170** |
| **Ingelen** | **050,188** |
| **Ingersol** | **010** |
| **Inno Hit** | **004,010,011,012,052,094,124,170,211,222** |
| **Innovation** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178** |
| **Interbuy** | **010,110,130** |
| **Interfunk** | **001,016,050,052,130,140,142,170** |
| **Intersound** | **182** |
| **Intervision** | **003,004,015,110** |
| **Irradio** | **010,012,052,069,170,212** |

| | |
|---|---|
| **Iskra** | **183,231** |
| **Isukai** | **012,212** |
| **ITC** | **004,132,184,204,233** |
| **ITE** | **209** |
| **ITL** | **196** |
| **ITS** | **012,052,069,121,212** |
| **ITT** | **010,050,062,133,134,135,142,143,144,188,220** |
| **JEC** | **165** |
| **Jet Point** | **199** |
| **JVC** | **028,052,069,082,189** |
| **Kaisui** | **004,010,012,121,212** |
| **Kamosonic** | **004** |
| **Kamp** | **004** |
| **Kapsch** | **021,050,188,197,200** |
| **Karcher** | **004,010,017,038,170** |
| **Kasai** | **212** |
| **Kendo** | **015,020,029,109,180,183,196,197,198,207,213** |
| **Kennedy** | **021,132,182,197,231** |
| **Kennex** | **182,233,234** |
| **Kerion** | **182,212** |
| **Kingsley** | **004** |
| **Kitt** | **212** |
| **Kneissel** | **175,180,182,196,212** |
| **Kolster** | **052,191,210,214** |
| **Konka** | **012,206** |
| **Kontact** | **204** |
| **Korpel** | **052,170** |
| **Korting** | **001,022** |
| **Kotron** | **226** |
| **Koyoda** | **010** |
| **Kronne** | **180** |
| **KTV** | **004,210** |
| **Kuba** | **186,195** |
| **Kuro** | **122,200** |
| **Kyoto** | **038,217** |

| | |
|---|---|
| **Lavis** | **211** |
| **Lenco** | **010,233,234** |
| **Lenoir** | **004,010,196,199,208,211** |
| **Lesa** | **130,191** |
| **Leyco** | **003,011,027,052,170,214** |
| **LG** | **004,010,013,020,052,085,089,094,130,132,150,170,172,210,223** |
| **Liesenk** | **170** |
| **Liesenkotter** | **179,195** |
| **Life** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172,176,177,178** |
| **Lifetec** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172,176,177,178,211,214** |
| **Loewe** | **098,099** |
| **Loewe Opta** | **001,052,170,190** |
| **Logik** | **031** |
| **Luma** | **020,021,052,142,170,197,198** |
| **Lumatron** | **020,021,052,142,170** |
| **Lux May** | **052** |
| **Luxor** | **004,020,048,078,094,102,133,139,142,147** |
| **Madison** | **182,212** |
| **Magnadyne** | **001,015,124,130,132,170,191** |
| **Magnafon** | **004,015,044,073,124,181,182,183,195,209** |
| **Magnum** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172,176,177,178** |
| **Mandor** | **003** |
| **Manesth** | **003,004,022,029,052,170,182,184,188,213** |
| **Marantz** | **052,170,187,195** |
| **Marech** | **182** |
| **Marelli** | **001** |
| **Mark** | **052,170** |
| **Marshall** | **212** |
| **Matsui** | **004,005,010,011,014,020,026,027,028,029,031,052,063,069,092,124,148,149,165,170,174,213,215** |
| **Matsushita** | **066** |
| **Mcmichael** | **042** |

| | |
|---|---|
| **Mediascreen** | **214** |
| **Mediator** | **016,052,170,195** |
| **Medion** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178,211** |
| **M-Electronic** | **004,010,017,019,037,050,052,069,110,111,116,140,170** |
| **Memorex** | **010** |
| **Memphis** | **010,011,114** |
| **Metz** | **001,076,081,136,152,153,218** |
| **Micromaxx** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178** |
| **Microstar** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178** |
| **Minerva** | **018,102,136,185** |
| **Minoka** | **052** |
| **Mitsubishi** | **001,028,031,052,055,056,061,099,102,136,171,192** |
| **Mivar** | **004,044,074,094,124,193** |
| **Motion** | **044** |
| **MTC** | **133** |
| **Multi System** | **170** |
| **Multitech** | **004,010,015,020,028,044,046,130,132,170,209,212,233** |
| **Murphy** | **004,019,134** |
| **NAD** | **142** |
| **Nagoya** | **207** |
| **Naonis** | **020,109** |
| **National** | **065,102,194** |
| **NEC** | **028,057** |
| **Neckermann** | **001,004,009,020,023,052,084,119,133,170** |
| **NEI** | **052,069,114,170,183,199,212** |
| **Nesco** | **130** |
| **New World** | **012** |
| **Newmar** | **182,183,209** |
| **Newtech** | **010,052** |
| **Nicamagic** | **004** |
| **Nikkai** | **003,004,011,012,052,114,165,170,186,205,211,212** |
| **Nikkei** | **233,234** |
| **Noblex** | **184,199,200** |

| | |
|---|---|
| **Nobliko** | **004,015,018,044** |
| **Nogamatic** | **140,204** |
| **Nokia** | **050,062,064,133,134,135,142,143,144,188,220** |
| **Nordic** | **212,213** |
| **Nordmende** | **025,037,046,047,050,052,058,112,127,128,140,204** |
| **Nordvision** | **170** |
| **Nordway** | **217** |
| **Nortek** | **233** |
| **Novatronic** | **183,187,212,234** |
| **Oceanic** | **050,142,143,188,220** |
| **Octan** | **195** |
| **Okano** | **084,187,233** |
| **Onceas** | **004,196,211** |
| **Onwa** | **070,196,212** |
| **Orbit** | **052** |
| **Orion** | **010,014,022,027,029,031,052,063,076,096,100,124,143,148, 160,170,172,213** |
| **Ormond** | **172** |
| **Orsow'e** | **209** |
| **Osaki** | **003,004,005,011,012,075,166** |
| **OSO** | **012** |
| **Osume** | **011,030** |
| **Otto Versand** | **002,004,009,022,028,052,077,112,119,121,122,132,133,140, 142,170** |
| **Pael** | **004,181,206** |
| **Palladium** | **004,013,084** |
| **Panama** | **003,004,010,166** |
| **Panasonic** | **050,065,066,067,068,102,125,142,143,152,153,194** |
| **Pathe Cinema** | **004,022,038,074,132,182,207,211,228** |
| **Pathe Marconi** | **023,038,046,047,127,140,204** |
| **Pausa** | **010** |
| **PCM** | **211** |
| **Perdio** | **005,011,022,182,209,213** |
| **Philarmonic** | **206** |
| **Philco** | **001,044,054,130,132,187** |
| **Philharmonic** | **004,166** |

| | |
|---|---|
| **Philips** | **001,004,016,039,042,044,052,089,090,096,112,116,132,142, 156,170,195,219** |
| **Phoenix** | **001,052,170,182,195** |
| **Phonola** | **001,016,052,170,195,219** |
| **Pioneer** | **037,050,052,140,146,170,216** |
| **Plantron** | **003,052** |
| **Poppy** | **010,211** |
| **Prandoni** | **182,197,209,212** |
| **Prandoni-Prince** | **020,124,142** |
| **Precision** | **004,166** |
| **Prima** | **010,050** |
| **Prinz** | **048,186,195,217,230** |
| **Profex** | **010,044,142** |
| **Profilo** | **172** |
| **Profi-Tronic** | **052** |
| **Proline** | **011,016,052,063,184,213,214** |
| **Prosonic** | **043,108,162,170,172** |
| **Protech** | **003,004,010,015,052,114,130,132,133,166,170** |
| **Provision** | **170** |
| **Pye** | **016,052,069,170,195** |
| **Pygmy** | **208** |
| **Pymi** | **010** |
| **Quasar** | **130** |
| **Quelle** | **003,004,017,018,019,023,027,031,052,077,130,132,136,142, 151,170** |
| **Questa** | **028** |
| **Radiola** | **016,039,052,170,195** |
| **Radiomarelli** | **001,124,130,191** |
| **Radionette** | **017,019,181,188** |
| **Radioton** | **206,211** |
| **Radiotone** | **008,052** |
| **Rank** | **018,028** |
| **RBM** | **018** |
| **RCA** | **032** |
| **Rediffusion** | **142** |

| | |
|---|---|
| **Revox** | **052,170,190** |
| **REX** | **003,020,021,050,109,158,197** |
| **RFT** | **001,008,040,227** |
| **R-Line** | **052,170** |
| **Roadstar** | **003,010,012,233,234** |
| **Robotron** | **001,227** |
| **RTF** | **001** |
| **Saba** | **001,037,046,047,050,059,112,124,127,128,140,142,143,204** |
| **Saccs** | **038** |
| **Sadec** | **212** |
| **Sagem** | **184** |
| **Saisho** | **003,004,010,014,029,031,096,124,183,213,215** |
| **Saito** | **207** |
| **Salora** | **020,048,050,094,108,109,119,122,129,132,133,135,139,142, 198** |
| **Sambers** | **015,044,073,124,181,207,209,211** |
| **Samsung** | **003,004,010,011,031,052,084,091,094,105,106,161,166,170, 173,199** |
| **Sandra** | **004** |
| **Sandra Color** | **195,231** |
| **Sansui** | **052,183,196,212** |
| **Sanwa** | **188** |
| **Sanyo** | **004,007,011,017,019,028,030,031,032,040,041,044,074,128, 132,135,161,200** |
| **SBR** | **016,042,096,170** |
| **Schaub Lorenz** | **050,142,143,188,220** |
| **Schneider** | **004,012,039,052,069,072,126,130,132,140,161,170** |
| **Schneider France** | **195,212,219** |
| **Scott** | **182** |
| **SEG** | **003,004,015,028,040,044,089,130,132,170** |
| **SEI** | **201** |
| **SEI-Synudyne** | **001,014,015,027,050,076,124** |
| **Seleco** | **020,021,028,050,109,132,158,197** |
| **Sencora** | **010** |
| **Senday** | **182** |

| | |
|---|---|
| **Sentra** | **165,205,212** |
| **Serino** | **184,212** |
| **Sharp** | **002,006,028,030,060,202** |
| **Shivaki** | **195,196** |
| **Shiwan** | **212** |
| **Shorai** | **027,212** |
| **Siarem** | **001,015,124,132,180,191** |
| **Sicatel** | **038,207** |
| **Siemens** | **009,023,030,136,179** |
| **Sierra** | **016,052** |
| **Siesta** | **161** |
| **Silva** | **211,212,224** |
| **Silver** | **028** |
| **Singer** | **001,015,130,132,180,188,191,204,211** |
| **Sinudyne** | **001,014,015,027,029,076,132,170,201** |
| **Skantic** | **050,139,147** |
| **Sogera** | **022** |
| **Solavox** | **050,093,188** |
| **Soniko** | **214,217,233** |
| **Sonitron** | **007,135** |
| **Sonoko** | **003,004,010,052,170,211,212,214** |
| **Sonolor** | **007,050,188** |
| **Sontec** | **052,161,170,196,210,220** |
| **Sony** | **010,011,028,030,031,077,107,128,131,166,203** |
| **Sound&Vision** | **012,015** |
| **Soundcolor** | **211,212,214,215** |
| **Soundmaster** | **226** |
| **Soundwave** | **052,170** |
| **Standard** | **004,010,012,022,052,166,182,183,191,196** |
| **Starlight** | **170** |
| **Starline** | **228** |
| **Starlite** | **212** |
| **Starlux** | **196,226** |
| **Stenway** | **121,206,212** |
| **Stern** | **020,021,050,197** |

| | |
|---|---|
| **STM** | **221** |
| **Sunic Line** | **182** |
| **Sunkai** | **010,027,063,183,211,212,213** |
| **Sunwood** | **010,052** |
| **Superla** | **004** |
| **Supertech** | **119,212,233,234** |
| **Supertone** | **206,207** |
| **Supra** | **010,184,214** |
| **Susumu** | **012** |
| **Sutron** | **010** |
| **Sydney** | **004,166** |
| **Sysline** | **170** |
| **Sytong** | **212** |
| **Taisho** | **207,213** |
| **Tamashi** | **212** |
| **Tandberg** | **081,158** |
| **Tandy** | **002,004,011,012,049,050,166** |
| **Tashiko** | **004,020,028,042,057,129,166** |
| **Tatung** | **004,011,026,052,124,166,170,229** |
| **TCM** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178** |
| **Teak** | **190** |
| **TEC** | **004,010,049,130,132,166** |
| **Technema** | **182** |
| **Technics** | **066,194** |
| **Technisat** | **040** |
| **Tecnema** | **022** |
| **Teinelsa** | **182,207** |
| **Teknant** | **211** |
| **Teleavia** | **023,037,046,112,127,140,204** |
| **Telefunken** | **023,036,037,051,052,053,079,080,102,103,112,127,128,140, 164,204** |
| **Telemeister** | **022** |
| **Teleopta** | **226** |
| **Teletech** | **010,089,114,130,170** |
| **Teleton** | **004,021,081,119,133,166,197** |

| | |
|---|---|
| **Televideon** | **022,182** |
| **Tennesee** | **233** |
| **Tensai** | **010,012,019,022,027,052,184,206,209,211,213,217** |
| **Tenson** | **182** |
| **Tesla** | **180,207** |
| **Tesmet** | **052** |
| **Tetran** | **182,197** |
| **Tevion** | **003,010,062,068,069,088,104,108,112,116,155,157,169,172, 176,177,178** |
| **Texet** | **004,166** |
| **Thomson** | **004,023,037,046,047,051,052,053,059,102,103,112,127,128, 140,164,167,204** |
| **Thorn** | **011,019,036,038,055,082,096,112,128,142,165,170,232** |
| **Tokai** | **011,052,183,184,210,212,226** |
| **Tokyo** | **004** |
| **Tomashi** | **121,212** |
| **Top Vision** | **210** |
| **Toshiba** | **018,028,083,165,205** |
| **Towada** | **050,132** |
| **Trevi** | **199,233,234** |
| **Trident** | **166** |
| **Triumph** | **014,083,124,181,211,226** |
| **Tsoshi** | **212** |
| **Uher** | **021,022,044,050,052,181,184,190,195,197** |
| **Ultravox** | **001,004,015,130,132,134,182,183,191,198,201** |
| **Unic Line** | **182,183,212** |
| **Unic Radio** | **180,188,228** |
| **Uniden** | **212** |
| **United** | **089,170,228** |
| **Universum** | **003,017,019,052,084,103,111,115,123,130,132,170** |
| **Univox** | **038,188,191,195,207** |
| **Uranya** | **182,191,211** |
| **Utax** | **211** |
| **Vanguard** | **186,212** |
| **Vestel** | **050,052,170,183,199** |
| **Vexa** | **010,170,212,231** |

| | |
|---|---|
| **Victor** | **028,052,066** |
| **Video System** | **052** |
| **Videologic** | **206** |
| **Videologique** | **004,012** |
| **Videosat** | **130** |
| **Videoton** | **184,217** |
| **Vidion** | **196** |
| **Visiola** | **004,180** |
| **Vision** | **022,052,182** |
| **Visorex** | **097** |
| **Vistar** | **049,188** |
| **Vortec** | **052,170** |
| **Voxson** | **001,020,044,050,052,109,189,197,208** |
| **Walkie** | **197** |
| **Waltham** | **004,038,049,139,166,217** |
| **Watson** | **022,052,170** |
| **Watt Radio** | **004,015,038,132,187,201,210,231** |
| **Wega** | **001,028** |
| **Wellfund** | **233** |
| **Weltblick** | **052,170,182** |
| **Westinghouse** | **182** |
| **Weston** | **132** |
| **White** | **182** |
| **White Westinghouse** | **004,015,022,044,170** |
| **Xoceco** | **235,236** |
| **Xrypton** | **182** |
| **Yamishi** | **184,212** |
| **Yoko** | **003,004,010,012,052,166,170,183,212,224** |
| **Yorx** | **012,196,206** |
| **Zanussi** | **020,021,109,197** |
| **Zoppas** | **197** |

# DVD

| Brand | DVD |
|---|---|
| Akai | 010,034,064 |
| CyberHome | 042,068 |
| Daewoo | 070 |
| Denon | 005,036,058 |
| Grundig | 011 |
| Harman/Kardon | 050 |
| Hitachi | 009,025,030,043,063 |
| Innovation | 012,013,014 |
| JVC | 002,032,066 |
| Kenwood | 005,028,058 |
| Labwave | 023,048 |
| Lasonic | 067 |
| LG | 016 |
| Life | 012,013,014 |
| Lifetec | 012,013,014 |
| Linn | 035 |
| Loewe | 011,039 |
| Magnavox | 056 |
| Marantz | 003,038 |
| Medion | 012,013,014,041 |
| Metz | 009,024 |
| Micromaxx | 012,013,014 |
| Microstar | 012,013,014 |
| Mitsubishi | 007 |
| Mustek | 069,071,072 |
| NAD | 027 |
| Noname | 045 |
| Onkyo | 015,029,065 |
| Optimus | 059 |
| Panasonic | 005,006,017,022,036,051,054,055,058 |
| Philco | 053 |
| Philips | 003,011,039,040,047,052 |

| | |
|---|---|
| **Pioneer** | **009,024,026,059,062** |
| **RCA** | **057,073** |
| **Samsung** | **008,030,063** |
| **Schneider** | **014** |
| **Sharp** | **012,013** |
| **Sherwood** | **044** |
| **Sony** | **004,031,046,060** |
| **SVA** | **074** |
| **TCM** | **012,013,014** |
| **Technics** | **005,036,037,058** |
| **Tevion** | **012,013,014** |
| **Thomson** | **001,033** |
| **Toshiba** | **003,049** |
| **Yamaha** | **005,036,058,061** |
| **Others** | **018,019,020,021** |

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